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UNITED STATES DEPARTMENT OF AGRICULTURE

FOREST SERVICE

NATIONAL FOREST FACTS

SOUTHWESTERN REGION

ARIZONA AND NEW MEXICO

1951

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PUBLICATIONS
"National Forest Facts"

The purpose of this booklet is to provide the salient facts regarding the forest resources and their management in the southwestern Region of the Forest Service, U.S. Department of Agriculture. It includes the 13 National Forests in Arizona and New Mexico

REGIONAL FORESTER
Post Office Building
Albuquerque, N.M.

1951

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TIMBER MANAGEMENT

TIMBER RESOURCES IN ARIZONA AND NEW MEXICO

Forest area in Arizona and New Mexico may be divided into two types:

1. The sawtimber area, containing ponderosa pine, Douglas fir, white fir and other species suitable for logging operations. This area is generally found above 7,000 ft. elevation and up to 11,500 ft. (timberline). It receives precipitation averaging 19 inches or better, annually. (In general, precipitation increases with elevation.)

2. The woodland area, containing pinyon, juniper, oak and the like. Generally between the 5,000 ft. and 7,000 ft. elevations, where precipitation is from 12 to 18 inches annually.

FOREST AREA IN REGION 3
(In acres. Includes all ownerships.)

	*Timbered Area	Woodland Area	Total Forest Area
ARIZONA	4,638,000	14,900,000	19,538,000
NEW MEXICO	6,101,000	13,900,000	20,001,000
REGION 3	10,739,000	28,800,000	39,539,000

*A considerable part of the timbered area in Arizona and New Mexico is inaccessible or too scattered for logging purposes or withdrawn for purposes other than timber production. This part is classed as "Non-commercial". The part which can be used for timber production is called the "Commercial" sawtimber area, and according to present criteria, this area is all that will support future timber production.

COMMERCIAL SAWTIMBER AREA AND VOLUME

ARIZONA	Area (Acres)	Volume (M ft. B.M.)
National Forests	2,058,000	11,550,000
Indian Reservations	686,000	4,467,000
State	30,000	105,000
Total, Federal and State	2,774,000	16,122,000
Private	41,000	148,000
Grand Total	2,815,000	16,270,000
NEW MEXICO		
National Forests	2,020,000	5,610,000
Indian Reservations	345,000	653,000
Other Federal	40,000	142,000
State	149,000	407,000
Total, Federal and State	2,554,000	6,812,000
Private	911,000	1,659,000
Grand Total	3,465,000	8,471,000

The commercial sawtimber area may be divided as follows (by acres):

	Virgin	Cut-over	Total
Arizona	1,919,000	896,000	2,815,000
New Mexico	1,784,000	1,680,000	3,464,000

The cut-over land varies in its condition and consequently in its ability to produce future timber crops. For the region, it varies about as follows:

	Acres
1. Denuded lands with only a light stand of seedlings and saplings	424,000
2. Land fairly stocked with seedlings and saplings	495,000
3. Land with pole timber (trees between 4 and 12 inches D.B.H.	598,000
4. Selectively-cut land such as that on publicly owned areas	960,000
	2,477,000

It is only from such lands as the last (No. 4) that an early second cut of timber will be obtainable.

NUMBER OF TREE SPECIES IN REGION 3

There are about 130 species of trees in Region 3. Of these, four make up 98% of volume of the sawtimber stand. They are: Ponderosa Pine (Pinus ponderosa), 82%; Douglasfir (Pseudotsuga taxifolia), 10%; White fir (Abies concolor), 3%; Engelmann Spruce (Picea engelmanii) and Blue Spruce (Picea pungens), 3%. Corkbark fir (Abies Arizonica) and Limber Pine (Pinus flexilis) etc. make up the remaining 2%.

SAWTIMBER CUT BY YEARS (ENTIRE STATE)

Data from Census (Calendar Year)
(All Ownerships)

(The figures below are in M. ft. Board Measure (1,000 board feet).

Year	Number Mills Reporting		Total Cut		Total Cut Ariz. & New Mexico
	Ariz.	New Mex.	Ariz.	New Mex.	
1932	22	52	58,000	72,000	130,000
1934	34	74	73,000	101,000	174,000
1936	36	87	123,411	140,840	264,251
1937	39	105	123,041	164,446	287,487
1938	37	94	118,200	125,176	243,376
1939	42	98	119,206	106,227	225,433
1940	41	100	128,776	112,786	241,562
1941	42	119	130,567	114,612	245,179
1942	38	138	143,286	122,958	266,244
1943	44	118	151,547	109,099	260,646
1944	47	136	172,198	105,348	277,546
1945	53	135	157,984	99,100	257,084
1946	66	158	240,735	144,214	384,949
1947	61	162	220,017	126,925	346,942
1948	50	120	247,400	124,608	372,008

The sawtimber forests of Arizona and New Mexico have supplied sawtimber for the production of approximately ten billion board feet of saw products during the period 1879 to 1949 inclusive.

TIMBER CUT FROM NATIONAL FORESTS, BY YEARS

All classes of products converted to M ft. Board Measure. All classes of Forest Sales

Calendar Year

Year	Sales (All Classes) & Exchange M ft. BM				Free Use *		
	Arizona	New Mexico	Total Ariz. & New Mex.	Average Price Per M ft.	Arizona	New Mexico	Total
1939	65,416	32,780	98,196	$2.18	8,381	24,111	32,492
1940	74,634	41,084	115,718	2.30	8,976	28,674	37,650
1941	79,301	29,949	109,250	2.45	6,767	29,850	36,617
1942	75,033	45,190	120,223	2.48	6,575	20,588	27,163
1943	77,634	54,053	131,687	2.82	4,756	13,660	18,416
1944	113,551	41,678	155,229	3.40	4,970	13,565	18,535
1945	109,209	42,768	151,977	3.33	5,304	16,527	21,831
1946	170,358	49,477	219,835	3.29	6,845	18,606	25,451
1947	196,444	47,854	244,298	3.54	4,579	17,061	21,640
1948	193,498	43,225	236,723	4.32	4,958	13,022	17,980
1949	136,264	48,187	184,451	5.21	4,626	12,555	17,181
1950	206,154	62,710	268,864	5.58	5,053	13,683	18,736

In addition, the Forest Service supervised the cutting of 13,070 M.B.F. of State timber and 8,378 M.B.F. of private timber under cooperative agreements in 1950.

*Allowed settlers and residents on and adjacent to the National Forests for fuel, fencing, building, etc. These figures on fiscal year basis.

NATIONAL FOREST TIMBER CUT, BY FORESTS

Fiscal Year 1950

National Forest	Sales & Exchange (1000 Bd. Ft.)	Value	Amount Free Use (1000 Bd. Ft.)
ARIZONA			
Apache	40,750	$ 191.389	715
Coconino	66,139	313,621	589
Coronado	1,461	4,953	1,258
Crook	1,602	3,541	126
Kaibab	17,390	72,889	448
Prescott	1,947	10,466	254
Sitgreaves	45,854	301,531	773
Tonto	5,916	31,640	890
Total - Arizona	181,059	$ 930,030	5,053
NEW MEXICO			
Apache	5,466	35,061	773
Carson	4,881	19,438	6,302
Cibola	6,046	32,442	1,391
Coronado	-	-	56
Gila	12,630	59,261	555
Lincoln	4,412	46,245	737
Santa Fe	22,601	127,469	3,869
Total - New Mexico	56,036	$ 319,916	13,683
TOTAL - REGION 3	237,095	$1,249,946	18,736

Estimated Number users supplied free use timber - 23,205

RANGE MANAGEMENT

LIVESTOCK GRAZED UNDER PERMIT ON NATIONAL FORESTS - CALENDAR YEAR 1950

State	Cattle and Horses	Animal Months	No. of C&H Permits	Sheep and Goats	Animal Months	No. of S&G Permits	Exempt Stock
Arizona	133,288	1,150,807	844	86,176	329,448	29	4,804
New Mexico	74,597	602,751	1,785	98,707	445,029	168	4,845

TOTAL AREA AVAILABLE FOR LIVESTOCK ON NATIONAL FORESTS

Arizona	9,096,942
New Mexico	6,488,798
Total	15,585,740

GOVERNMENT-OWNED RANGE USE IMPROVEMENTS - JUNE 30, 1950

ARIZONA

Forest	Fence & Corrals Miles	Stock Drive-ways Miles	Water Developments Number	Cost
Apache	557.4	45.0	84	198,475.20
Coconino	1,128.0		350	498,843.13
Coronado	1,353.0		670	684,146.75
Crook	1,212.8		514	555,783.30
Kaibab	555.4		187	323,537.45
Prescott	1,068.1	7.5	357	573,084.47
Sitgreaves	412.8		81	164,734.17
Tonto	1,764.6	120.8	588	631,785.45
Total Forests	8,052.1	173.3	2,831	3,630,389.92
Swn. Forest & Range Exp. Station	121.0		30	84,073.92
GRAND TOTAL ARIZONA	8,173.1	173.3	2,861	3,714,463.84

NEW MEXICO

Apache	576.2		114	214,818.08
Carson	472.6		97	212,048,68
Cibola	1,576.7		246	591,452.07
Coronado	73.0		41	30,128.55
Gila	1,787.2		280	650,003.51
Lincoln	899.4		222	537,534.70
Santa Fe	627.5	44.0	26	215,152.28
Total Forests	6,012.6	44.0	1,026	2,451,137.87
Swn. Forest & Range Exp. Station	132.0		31	57,794.40
GRAND TOTAL NEW MEX.	6,144.6	44.0	1,057	2,508,932.27
TOTAL FORESTS	14,064.7	217.3	3,857	6,081,527.79
TOTAL SOUTHWESTERN	253.0		61	141,868.32
GRAND TOTAL - R-3	14,317.7	217.3	3,918	6,223,396.11

WILDLIFE

ESTIMATES OF WILDLIFE ON NATIONAL FORESTS

Calendar Year
1950

State	Antelope	Black or Brown Bear	Deer	Elk	Mtn. Sheep	Peccary or Javelina
Arizona	5,500	1,100	72,000	7,800	70	13,000
New Mexico	2,000	1,300	61,500	2,000	130	550
Total - R-3	7,500	2,400	133,500	9,800	200	13,550

GAME ANIMALS KILLED ON NATIONAL FORESTS - 1950

State	Antelope	Bear	Deer	Elk	Peccary
Arizona	300	110	6,300	900	690
New Mexico	30	100	4,110	90	--
Total - R-3	330	210	10,410	990	690

SMALL GAME, GAME BIRDS AND FURBEARERS ON NATIONAL FORESTS

Species	Arizona Abundance				New Mexico Abundance			
	*A	C	O	R	A	C	O	R
Cottontail Rabbit		X			X			
Abert Squirrel		X						
Tuft-eared Squirrel		X				X		
Fox Squirrel						X		
Turkeys			X			X		
Blue Grouse				X			X	
Gambel Quail		X				X		
Scaled Quail			X					X
Ducks		X						X
Bandtailed Pigeon			X				X	
Mourning Dove		X				X		
Bobcat			X				X	
Mountain Lion			X				X	
Coyote			X				X	
Fox		X					X	
Badger			X				X	
Beaver				X		X		
Marten				X				X
Mink				X		X		
Skunk		X				X		

*Code Letters

A - Abundant C - Common O - Occasional R - Rare

HUNTING AND FISHING ON NATIONAL FORESTS

Users	Number	Visits
Arizona		
Big Game Hunters	42,000	123,000
Small Game Hunters	8,000	24,000
Fishermen	97,000	222,000
Total	147,000	369,000
New Mexico		
Big Game Hunters	24,000	78,000
Small Game Hunters	4,200	11,000
Fishermen	59,000	147,000
Total	87,200	236,000
Region 3		
Big Bame Hunters	66,000	201,000
Small Game Hunters	12,200	35,000
Fishermen	156,000	369,000
Total	234,200	605,000

NATIONAL FOREST FISHING WATERS*

	Streams (Miles)	Lakes (Acres)
Arizona	731	37,506
New Mexico	1115	437
Region 3	1846	37,943

*This information available at 5-year intervals only. Above figures taken from five-year report, Fiscal Year 1949.

PUBLIC CAMPGROUNDS AND PICNIC GROUNDS ON NATIONAL FORESTS IN ARIZONA

(For further details, write the Forest Supervisor, at headquarters shown for each Forest. Example: "Forest Supervisor, Crook National Forest, Safford, Ariz.")

Name	Location	No. of Camp Setups	Camp-ing	Pic-nick-ing	Hunt-ing	Fish-ing
Apache National Forest (Supervisor's Headquarters at Springerville, Arizona)						
Hannagan	U.S. 666	10	X	X	X	
Blue Crossing	Blue River Road	2	X	X		X
Buffalo Crossing	Water Canyon Road	5	X	X	X	X
Sheep Crossing	8 mi. SW of Greer	4	X	X	X	X
Greer	Greer, Arizona	12	X	X	X	X
Alpine	US-260 - 666	5	X	X	X	
Big Lake	20 mi.SW Springerville	4	X	X	X	X
Pueblo Park	16 mi. S.of Luna, US-60	4	X	X		
Coconino National Forest (Supervisor's Headquarters at Flagstaff, Arizona)						
Townsend	Junc. US-89 & State 67	9	X	X		
Kit Carson	US-66, 2 mi.W. Flagstaff	22	X	X		
Oak Creek Canyon	US-89-A	90	X	X	X	
Lake Mary	8 mi. S. of Flagstaff	21	X	X	X	X
Dairy Springs	Mormon Lake, 30 mi. S. of Flagstaff	38	X	X	X	X
Kehl Springs	Mogollon Rim	6	X	X	X	
Arizona Snow Bowl	San Francisco Peaks	0				
Coronado National Forest (Supervisor's Headquarters at Tuscon, Arizona)						
Sabino Canyon	15 mi. NE of Tucson	43	X	X		X
Catalina Rec.Area	6 areas in Catalina Mts. NE of Tucson	200	X	X	X	X
Madera Canyon	35 mi. S. of Tucson	20	X	X	X	
Cave Creek	5 mi. W. of Portal	10	X	X	X	X
Pinery Canyon	SE of Willcox	5	X	X	X	
Rucker Canyon	N. of Douglas	20	X	X	X	X
Turkey Creek	N. of Douglas	10	X	X		
Crook National Forest (Supervisor's Headquarters at Safford, Arizona)						
Upper Juan Miller	US-666, N. of Clifton	4	X	X	X	
Stray Horse	US-666, foot of Blue Rim	5	X	X	X	
Arcadia	Graham Mtns.	10	X	X		
Shannon	Marijilda Canyon	8	X	X		
Jones Water	US-60, 20 mi.N. of Globe	11	X	X		
Oak Flat	US-60 - 70	19	X	X		
Pinal Mtns.	S. of Globe	10	X	X		
Mt. Graham	Swift Trail	35	X	X	X	X
Kaibab National Forest (Supervisor's Headquarters at Williams, Arizona)						
Old Bill Williams	1 mi.W. Williams,US-66	10	X	X		
Sycamore Rim	20 mi. S. of Williams	3	X	X	X	
Whitehorse Camp	16 mi. S. of Williams	10	X	X	X	X
Jacob Lake	Junc.US-89 & State 67	18	X	X	X	
V. T. Ranch	State Highway #67	5	X	X		

Name	Location	No. of Camp Setups	Camp-ing	Pic-nick-ing	Hunt-ing	Fish-ing
Prescott National Forest (Supervisor's Headquarters at Prescott, Arizona)						
Thumb Butte	4 mi. W. of Prescott	6		X		
The Playgrounds	2 mi. SE of Mingus Mtn.Inn	6		X	X	
Potato Patch	½ mi. E. Mingus Mtn. Inn	9		X	X	
Horsethief Basin	Bradshaw Mts.S.Crown King	50	X	X	X	X
Granite Creek	3 mi. S. of Prescott	13	X	X		
Indian Creek	5 mi. S. of Prescott	25	X	X		
Wolf Creek	On cutoff road between White Spar & Senator Hys.	19	X	X	X	
Mingus Mtn.	Mingus Mtn.	20	X	X	X	
Powell Springs	15 mi. E. of Dewey	10	X	X	X	
Granite Basin	8 mi. NW of Prescott	19	X	X		X
Sitgreaves National Forest (Supervisor's Headquarters at Holbrook, Arizona)						
Pinetop	State Hy. #77	8	X	X	X	X
Lakeside	State Hy. #77	21	X	X	X	X
Tonto National Forest (Supervisor's Headquarters at Phoenix, Arizona)						
Seven Springs	N.of Phoenix,Camp Cr. Rd.	22	X	X		
Cave Creek	N.of Phoenix, Cave Creek	12	X	X		
Rose Creek	N. of Globe	4	X	X		X
Reynolds Creek	N. of Globe	2	X	X		X
Sycamore	N. of Payson	8	X	X		X
Pine	N. of Payson	8	X	X	X	X
Horton-Tonto Cr.	Upper Tonto Road	38	X	X	X	X
Crabtree Wash	Apache Lake	8	X	X		X
Burnt Corral	Apache Lake	4	X	X		X
Roosevelt (hotel)	Roosevelt Lake	3	X	X	X	X
Blue Point	E. of Phoenix	7	X	X		X
Stewart Mtn. Lake	E. of Phoenix	6	X	X		X
Carney Springs	E. of Mesa	1	X	X		
Coon Bluff	Salt Riv. E. of Phoenix	10	X	X		X
Canyon Lake	Salt Riv. E. of Phoenix	6	X	X		X
River Picnic Area	Salt Riv. E. of Phoenix	4	X	X		X

PUBLIC CAMPGROUNDS AND PICNIC GROUNDS ON NATIONAL FORESTS IN NEW MEXICO

Carson National Forest (Supervisor's Headquarters at Taos, New Mexico)						
Red River	6 camps in Red Riv. Canyon	13	X	X	X	X
Hondo Canyon	7 camps in Hondo Canyon	15	X	X	X	X
Taos Canyon	5 camps in Taos Canyon	34	X	X		
Rio Pueblo	4 camps on Rio Pueblo	45	X	X	X	X
Santa Barbara	7 mi. SE of Penasco	11	X	X	X	X
Cabresto Lake	7 mi. NE of Questa	12	X	X	X	X
El Rito	El Rito Cr.above El Rito	5	X	X	X	X
Lagunitas	15 mi. W.of San Antone RS	4	X	X	X	X
Upper Canjilon	10 mi. E.of Canjilon	4	X	X	X	X
Echo Ampitheatre	15 mi. S. of Canjilon	4	X	X	X	
La Jara	8 mi. N. of Vallecitos	4	X	X	X	X

Name	Location	No. of Camp Setups	Camp-ing	Pic-nick-ing	Hunt-ing	Fish-ing
Cibola National Forest (Supervisor's Headquarters at Albuquerque, New Mexico)						
Sandia Mts.	9 areas on Sandia Look Dr.	123		X		
Juan Tabo	2 areas W.foot Sandia Mts.	41		X		
Dry Camp	Highway 10 S. of Tijeras	3		X		
Manzano Mts.	6 areas on E. side of Manzano Mts.	35	X	X		
Red Cloud	Gallina Mt.	3		X		
Lobo	10 mi. from Grants	3	X	X		
McGaffey	SE of Gallup	20	X	X		X
Quaking Aspen	6 mi. S. of Ft. Wingate	3	X	X		
Water Canyon	E. of Socorro	6	X	X	X	
San Mateo Mts.	3 areas in San Mateo Mts.	12	X	X	X	
Gila National Forest (Supervisor's Headquarters at Silver City, New Mexico)						
Little Walnut	6 mi. from Silver City	14		X		
Cherry Creek	14 mi. from Silver City	6	X	X	X	
Little Dry	51 mi.N.Silver City,US-260	8	X	X		
Whitewater	5½ mi. above Glenwood	9	X	X	X	X
Willow Creek	Willow Creek Road #78	3	X	X	X	X
Iron Creek	Black Range Hy. #180	6	X	X	X	
Lincoln National Forest (Supervisor's Headquarters at Alamogordo, New Mexico)						
Nogal Lake	West of Capitan	5	X	X		X
Cedar Creek	Near Ruidoso	8	X	X		
School House	At Ruidoso	24	X	X		
James Canyon	James Canyon	4	X	X		
Sitting Bull Falls	Guadalupe Mountains	13	X	X		
Santa Fe National Forest (Supervisor's Headquarters at Santa Fe, New Mexico)						
Battleship Rock	Jemez Springs Road	14	X	X	X	X
Paliza	Paliza Canyon	17	X	X	X	X
Black Canyon	Adjacent to Hyde St. Park	20	X	X		
Panchuela	Panchuela Creek	11	X	X		X
Winsor Creek	Winsor Creek	8	X	X		X
Fields Tract	Pecos River	9	X	X		X
Gallinas Canyon	NE of Las Vegas	2	X	X		X
Santa Fe Basin	North of Pecos	6	X			X
Clear Creek	East of Cuba	5	X			X

RECREATION VISITORS - 1950
(Estimates cover government owned lands only)

Recreation Areas	Arizona	New Mexico	Region 3
Campgrounds	124,880	67,392	192,272
Picnic Areas	377,335	184,181	561,516
Winter Sports Areas	16,280	18,210	34,490
Organization Camps	13,440	7,110	20,550
Hotels and Resots	67,706	2,095	69,801
Recreation Residences	11,977	3,175	15,152
Wilderness Areas	19,570	7,210	26,780
Other Forest Areas	384,938	296,591	681,529
Highways and Roads	1,655,820	1,271,890	2,927,710
TOTALS	2,671,946	1,857,854	4,529,800

WILDERNESS AREAS

ARIZONA

Forest	Name of Area	Acreage: National Forest	Acreage: Other	Final Approval
Apache (Crook)	Blue Range	216,737	1,427	8-20-36
Tonto	Mazatzal	205,000	346	6-13-40
Tonto (Crook)	Superstition	124,140		4-17-40*

NEW MEXICO

Gila	Black Range	168,424	1,560	8-20-36
Gila	Gila	562,609	4,445	4-4-38**
Santa Fe	Pecos Division	136,640	1,360	8-22-36

WILD AREAS

ARIZONA

Apache	Mt. Baldy	7,400		8-20-36
Coconino	Sycamore Canyon	21,277	1,108	8-20-36
Kaibab	Sycamore Canyon	5,870		
Prescott	Sycamore Canyon	18,975		
Coronado	Chiricahua	18,000		9-18-40
Crook	Galiuro	55,000		6-19-40
Prescott	Pine Mountain	9,842	76	8-22-36
Tonto	Pine Mountain	7,582		
Tonto	Sierra Ancha	20,850	66	2-28-33***

NEW MEXICO

Lincoln	White Mountain	22,800	1,200	8-20-36
Santa Fe	San Pedro Parks	41,132		9-16-40

*Revised 1950
**Amended 11/25/44
***Amended 1950

WATERSHED MANAGEMENT

STREAM FLOW CHARACTERISTICS OF SMALL MOUNTAIN WATERSHEDS IN CENTRAL ARIZONA AS RELATED TO PRECIPITATION

	Elevation (Feet)	Precipitation (Inches)	Stream Flow (Inches)	Stream Flow as percent of precipitation
(Winter period (October through May)				
Workman Creek (1938-45)	6500-7700	25.6	3.8	14.7
Parker Creek (1934-45)	5400-7400	20.9	6.6	31.6
Pocket Creek (1936-45)	5300-7000	17.8	4.4	24.6
(Summer period (June through September)				
Workman Creek (1939-46)	6500-7700	10.4	0.40	3.8
Parker Creek (1934-46)	5400-7400	9.9	0.32	3.2
Pocket Creek (1937-46)	5300-7000	8.5	0.18	2.1

The above table indicates that summer rains ordinarily contribute little to stream flow; the bulk of the water comes from the winter precipitation. The reasons are (a) Summer thunderstorms are usually local and of short duration; any run-off generally disappears in dry stream beds; (b) Summer rains generally do not get a chance to accumulate in the ground, and hence do not produce sub-surface flow. In contrast, winter period storms are generally widespread, of medium to high intensity, and long duration. Hence, they produce sub-surface run-off and relatively high water yield. There are exceptions to the above; occasionally a late summer storm causes heavy run-off of short duration.

ESTIMATED WATER YIELD FROM TYPICAL SOUTHWESTERN DRAINAGES

(The basis for these estimates is a correlation of stream-gaging and precipitation records, adjusted to elevations, vegetative association and other factors affecting run-off. The precipitation data were obtained from Weather records and state maps and the available stream-gaging records used for certain basic flow determinations were obtained from U.S.G.S. water supply papers.)

SANTA FE NATIONAL FOREST

Drainage Name	Gross Area of Basin--Sq.Mi. (Santa Fe Forest)	Annual Water Yield--Acre Ft. Per Year	Per Sq.Mi.
Mora River*	132	42,000	317
Gallinas River	57	20,000	346
Tecolote Creek	46	8,000	179
El Rito Creek	30	3,500	118
Canyon Blanco	74	4,500	60
Cow Creek	121	26,500	220
Pecos River	306	108,000	353
Rio Galisteo	74	6,200	85
Santa Fe Creek	35	8,500	242
Pojoaque Creek	60	13,100	218
Santa Cruz & Truchas	117	36,000	308
Direct Tributaries from West Side**	209	17,600	84
Jemez River	223	40,400	181
Rio Puerco	102	12,100	119
Chama River	336	43,500	129
Gallina River	218	21,600	100
Largo Creek (San Juan)	18	800	44
Total Santa Fe Forest	2,158	412,300	190

*Includes Rociada Tract and unacquired Mora Grant lands to Forest Boundary.

**Excluding Ramon Vigil Grant.

Baca Location is not included in estimates.

ESTIMATED WATER YIELD BY PRINCIPAL DRAINAGES

GILA NATIONAL FOREST

Drainage Name	Gross Area of Basin--Sq.Mi. (Gila Forest)	Annual Water Yield--Acre Ft.	
		Per Year	Per Sq.Mi.
Luera Mtns.and Y Canyon	155	4,100	26
Negrito Creek	185	8,100	44
San Francisco (Direct)	486	35,000	68
Sub (San Francisco)	671	43,100	62
Sacaton Creek	18	2,500	139
Mogollon Creek	110	17,100	155
West Fork, Gila	164	30,850	188
Middle Fork, Gila	364	35,500	98
Main Stem, Gila	728	35,700	49
Bear Creek	126	7,200	57
Sapillo Creek	176	9,750	55
Black Canyon	115	10,100	88
Diamond Creek	119	9,700	81
Mangas Wash (Burros)	82	2,100	26
Gila direct (Tillie-Hall Peak)	36	800	22
Gila direct (Burros)	178	4,100	23
Sub T. (Gila River)	2,216	165,400	76
Mimbres	345	19,600	57
Rio Grande (Direct)	454	26,100	57
Sub T. (Rio Grande)	799	45,700	57
TOTAL GILA FOREST	3,841	258,300	67

CARSON NATIONAL FOREST

Latir Creek	17	5,500	325
Red River	171	62,000	364
San Cristobal	29	3,200	112
Rio Hondo	38	19,300	507
Taos Creek*	123	32,200	264
Little Rio Grande*	145	38,300	264
Embudo (Pueblo Cr.)	230	65,000	284
Coyote Creek (Can.)#	14	4,500	320
Los Pinos - San Antone	204	50,000	248
Brazos**	20	8,000	392
Aguage Arroyo##	74	4,600	62
Las Tusas	186	22,000	120
Vallecitos*	220	37,000	170
El Rito Creek	65	13,500	207
Canjilon Creek*	151	14,500	101
Rio Nutrias**	17	3,500	212
Rio Cebolla**	54	4,000	76
Chama (Direct)	38	600	16
San Juan (Jicar.)	249	15,600	63
TOTAL CARSON FOREST***	2,045	403,300	197

* Includes Non-National Forest area of Watershed.
** National Forest drainage only.
***Totals include non-forest areas as listed above.
Does not include Santa Fe area to be administered by Carson.
Does not include Taos Resettlement Area.

ESTIMATED WATER YIELD BY PRINCIPAL DRAINAGES

APACHE NATIONAL FOREST

Drainage Name	Gross Area of Basin--Sq.Mi. (Apache Forest)	Annual Water Yield--Acre Ft. Per Year	Per Sq.Mi.
Mineral Creek	52	12,200	232
Canero Creek	37	8,300	224
Little Colorado (Direct)	81	33,700	414
So. Fork Little Colorado	55	14,300	260
Nutrioso Creek	148	17,300	117
Coyote Creek*	80	5,500	69
Agua Fria Creek*	127	6,400	51
Largo Creek*	127	13,700	108
(Sub-T. Little Colorado)	707	111,400	158
Mangas Creek*	61	8,100	133
Alamacito-Patterson*	74	8,400	114
T.H. Canyon-Cottonwood*	45	6,100	135
(Sub-T. Interior Plains)	180	22,600	126
Tularosa Creek	324	23,800	74
Apache Creek	137	10,900	79
Saliz-Bushy Creek	75	4,200	56
Pueblo Creek	84	5,800	69
Upper "Frisco" Direct	162	24,200	149
Centerfire-Karruth Creek	149	10,800	73
Lower "Frisco" Direct	214	11,000	51
(Sub-Total San Francisco River)**	1,145	90,700	80
Campbell & Dry Blue	112	24,700	220
Blue River (Direct)	184	23,800	129
(Sub-Total Blue River)	296	48,500	164
North Fork Black River	49	21,800	445
East Fork Black River	63	25,500	405
Black River (Direct)	244	101,600	415
(Sub-Tot. Black River)	356	148,900	418
Total Apache Forest	2,684	422,100	157

*Principally flood waters and seasonal flow.
**Exclusive of Negrito Creek above Apache-Gila boundary.

ESTIMATED WATER YIELD BY PRINCIPAL DRAINAGES

PRESCOTT NATIONAL FOREST

Drainage Name	Gross Area of Basin—Sq.Mi. (Prescott Forest)	Annual Water Yield--Acre Ft.	
		Per Year	Per Sq.Mi.
Bill Williams	299	15,500	52
Hassayampa	204	26,100	128
Agua Fria, West	247	31,200	126
Agua Fria, Northeast (Yaeger Canyon, Ash Cr.)	218	15,200	70
Agua Fria, Southeast (Sycamore and Indian Creek)	80	8,900	111
(Sub Total Agua Fria River)	545	55,300	101
Verde, Northwest (Chino)	224	7,200	32
Verde, Southwest (Williamson Valley, Granite Creek)	243	12,100	50
Verde, North (West of Hell Canyon)	208	4,800	23
Verde, North (East of Hell Canyon)	187	5,100	27
Verde, West (From Cottonwood North)	171	5,500	32
Verde, South (From Cottonwood South)	188	10,700	57
Sub Total Verde River	1,221	45,400	37
TOTAL PRESCOTT FOREST	2,277	142,300	62

OPERATION

FIRE RECORD FOR 1950

Forest and State	A Less Than 1/4 Acre	B 1/4 Ac.& Less Than 10 Acres	C 10 Ac. & Less Than 100 Ac.	D 100 Ac. & Less Than 300 Ac.	E Over 300 Acres	Total	Fires Man-Caused	Acreage Burned
ARIZONA								
Apache	57	17	8	2	2	86	16	3,657
Coconino	334	76	8		2	420	89	2,580
Coronado	29	12	5	1		47	9	369
Crook	29	14	6	1	3	53	8	1,406
Kaibab	99	37	6	1		143	37	403
Prescott	47	19	5	1	1	73	26	1,151
Sitgreaves	137	60	2	1		200	39	281
Tonto	86	23	6	2		117	15	566
TOTAL ARIZONA	818	258	46	9	8	1139	239	10,413
NEW MEXICO								
Apache	59	39	1	1		100	16	424
Carson	45	12	5		2	64	33	96
Cibola	46	32	7	4	2	91	29	1,274
Gila	95	64	19	3	2	183	24	3,848
Lincoln	52	17	2	1	5	77	21	16,775
Santa Fe	86	49	7		1	143	38	945
TOTAL NEW MEXICO	383	213	41	9	12	658	161	23,362

COMPARATIVE FIRE RECORD - 1940-1949

	1940	1941	1942	1943	1944	1945	1946	1947	1948	1949	Totals	Average
Number of Fires	2,530	978	2,008	1,652	1,456	1,499	1,510	1,629	1,527	1,668	16,457	1,646
Man-caused Fires	251	131	353	253	216	287	278	304	308	172	2,553	255
Acreage Burned	3,350	1,097	6,404	14,781	9,910	11,171	42,190	19,895	24,465	3,706	136,969	13,697

NATIONAL FOREST IMPROVEMENTS (GOVERNMENT-OWNED) ON JUNE 30, 1950
(Includes Southwestern Forest & Range Exp. Station)

	ARIZONA		
	Number	Miles	Construction Cost
1. Field Planting	658.0		26,998.30
2. Range Revegetation	3,192.2		58,340.71
Fire Control and Administration			
3. Fire Control Improvements			109,443.06
4. Lookout Houses, Towers and Observatories	63		
5. Fire Control Water Facilities	2		
6. Firebreaks		12.0	
Administration Improvements			
7. Communication Systems			392,712.27
8. Telephone Lines		2,038.6	
9. Dwellings and Related Improvements			757,653.85
10. Dwellings	219		
11. Other Structures	308		
12 Water and Sanitary Systems	118		
13. Warehouses, Shops and Offices			417,815.87
14. Offices	48		
15. Shops	12		
16. Warehouses	193		
Total	4,813.2	2,050.6	1,762,964.06
Public Service			
17. Recreation Use Improvements			1,100,338.66
18. Campgrounds and Picnic Areas	151		
19. Swimming Areas	1		
20. Winter Sports Areas	6		
Total	158		1,100,338.66
Wildlife and Range Use Improvements			
21. Range Use Improvements			3,714,463.84
22. Range Fences and Corrals		8,173.1	
23. Stock Driveways		173.3	
24. Range Water Developments	2,861		
25. Wildlife Use Improvements			159,811.17
26. Game Refuge Fences		7.8	
27. Fish Bearing Ponds	15		
28. Stream and Lake Improvements	38		
Total	2,914.	8,354.2	3,874,275.01
29. Soil and Water Control Improvements			340,331.21
30. Roads		9,470.3	9,966,713.77
31. Trails		3,513.7	319,045.96
Total		12,984.0	10,626,090.94
GRAND TOTAL	7,885.2	23,388.8	17,363,668.67

NATIONAL FOREST IMPROVEMENTS (GOVERNMENT-OWNED) ON JUNE 30, 1950
(Includes Southwestern Forest & Range Exp. Station)

	NEW MEXICO			TOTAL R-3		
	Number	Miles	Construction Cost	Number	Miles	Construction Cost
1.	1,004.0		25,603.33	1,662.0		52,601.63
2.	7,552.0		141,314.94	10,744.2		199,655.65
3.			97,358.08			206,801.14
4.	50			113		
5.				2		
6.		3.0			15.0	
7.			640,371.19			1,033,083.46
8.		2,339.8			4,378.4	
9.			456,705.30			1,214,359.15
10.	151			370		
11.	248			556		
12.	54			172		
13.			295,652.07			713,467.94
14.	35			83		
15.	3			15		
16.	137			330		
	9,234.0	2,342.8	1,657,004.91	14,047.2	4,393.4	3,419,968.97
17.			567,200.30			1,667,538.96
18.	103			254		
19.				1		
20.	10			16		
	113		567,200.30	271		1,667,538.96
21.			2,508,932.27			6,223,396.11
22.		6,144.6			14,317.7	
23.		44.0			217.3	
24.	1,057			3,918		
25.			73,670.67			233,481.84
26.		4.5			12.3	
27.				15		
28.	57			95		
	1,114	6,193.1	2,582,602.94	4,028	14,547.3	6,456,877.95
29.			433,052.17			773,383.38
30.		6,261.8	7,285,405.57		15,732.1	17,252,119.34
31.		4,262.3	238,740.58		7,776.0	557,786.54
		10,524.1	7,957,198.32		23,508.1	18,583,289.26
	10,461.0	19,060.0	12,764,006.47	18,346.2	42,448.8	30,127,675.14

LAND DISTRIBUTION STATISTICS

Distribution of Lands in Arizona	Area (Acres)	% of Total Area of State
Federal		
Indian Reservations	19,224,717	26.39
Grazing Districts and Public Domain	9,011,697	12.37
National Parks and National Monuments	2,394,568	3.29
Soil Conservation Service	10,454	.01
Santa Rita Experimental Range	52,604	.07
National Forests (net)*	11,429,384	15.69
Other Federal Lands	5,823,950	8.00
Total Federally Owned or Managed:	47,947,374	65.82
State		
Total State Owned	8,356,497	11.47
Private		
Private in farms and ranches	13,964,572	19.17
Private - Other	2,577,927	3.54
Total Privately Owned	16,542,499	
TOTAL AREA OF STATE	72,846,279	100.00

Distribution of Lands in New Mexico		
Federal		
Indian Reservations	7,153,109	9.12
Grazing Districts and Public Domain	14,612,786	18.62
National Parks and National Monuments	163,434	.21
Jornada Experimental Range	189,940	.24
National Forests (net)*	8,652,059	11.02
Soil Conservation Service	566,177	.72
Other Federal Lands	1,371,725	1.75
Total Federally Owned or Managed:	32,709,230	41.68
State		
Total State Owned	12,700,968	16.18
Private		
Private in Farms and Ranches	29,592,372	37.71
Private - Other	3,477,882	4.43
Total Privately Owned	33,070,254	
TOTAL AREA OF STATE	78,463,658	100.00
TOTAL AREA OF REGION 3	151,309,937	

The net forest area in Arizona and New Mexico totals:		20,081,443
The gross forest area in Arizona	12,106,492	
The gross forest area in New Mexico	9,912,011	
TOTAL	22,018,503	

*Latest available figures

SPECIAL USE PERMITS

	Free	Charge	Total
Arizona	4,141	1,701	5,842
New Mexico	1,551	880	2,431
TOTAL, REGION 3	5,692	2,581	8,273

NATIONAL FOREST AREAS

Arizona	Net Area	New Mexico	Net Area
Apache	678,418	Apache	887,778
Coconino	1,830,826	Carson	1,132,755
Coronado	1,315,830	Cibola	1,753,379
Crook	1,422,140	Coronado	69,477
Kaibab	1,713,710	Gila	2,393,717
Prescott	1,252,128	Lincoln	1,178,910
Sitgreaves	805,824	Santa Fe	1,236,043
Tonto	2,410,508		
TOTAL	11,429,384	TOTAL	8,652,059

Net area of the 151 National Forests in the United States for Fiscal Year 1950 - 179,685,328 acres.

RANGER DISTRICTS IN REGION 3 - TOTAL 73

ARIZONA		NEW MEXICO	
Apache National Forest	2	Apache National Forest	3
Coconino " "	6	Carson " "	6
Coronado " "	6	Cibola " "	6
Crook " "	5	Coronado " "	0
Kaibab " "	4	Gila " "	7
Prescott " "	6	Lincoln " "	5
Sitgreaves " "	4	Santa Fe " "	7
Tonto " "	6		
TOTAL, ARIZONA	39	TOTAL, NEW MEXICO	34

AREAS UNDER FOREST SERVICE ADMINISTRATION BY COUNTIES
As of June 30, 1950

County	Total Area of County (Acres) (1940 Census)	Acreage Under F. S. Administration	Percent of County area Under F. S. Administration
	ARIZONA		
Apache	7,151,360	485,647	6.79
Cochise	4,003,840	504,145	12.59
Coconino	11,886,720	3,394,720	28.56
Gila	3,040,000	1,676,092	55.13
Graham	2,950,400	397,026	13.46
Greenlee	1,199,360	748,929	62.44
Maricopa	5,907,840	691,763	11.71
Mohave	8,486,400	28,059	.33
Navajo	6,343,040	474,459	7.48
Pima	5,914,240	437,508	7.39
Pinal	3,441,920	222,413	6.46
Santa Cruz	797,440	425,106	53.31
Yavapai	5,178,240	1,996,121	38.54
STATE TOTAL	66,300,800	11,481,988	
	NEW MEXICO		
Bernalillo	744,320	80,987	10.88
Catron	4,414,720	2,194,933	49.72
Chavez	3,900,160	40,138	1.03
Colfax	2,409,600	6,293	.26
Dona Ana	2,434,560	189,940	7.80
Eddy	2,664,320	134,739	5.06
Grant	2,540,800	893,922	35.18
Hidalgo	2,206,080	77,130	3.50
Lincoln	3,109,760	440,725	14.17
McKinley	3,491,840	176,892	5.06
Mora	1,242,880	91,685	7.38
Otero	4,248,320	470,844	11.08
Rio Arriba	3,747,200	1,260,038	33.62
Sandoval	2,439,040	324,776	13.31
San Miguel	3,039,360	322,095	10.60
Santa Fe	1,243,520	187,616	15.09
Sierra	1,941,760	380,302	19.58
Socorro	4,974,080	876,492	17.62
Taos	1,443,840	391,024	27.08
Torrance	2,137,600	250,358	11.71
Valencia	3,607,680	229,376	6.35
STATE TOTAL	57,981,440	9,020,305	

EXPERIMENTAL FORESTS

ARIZONA

Forest	Name of Area	Acreage		Logging	Grazing	Established
		National Forest	Other			
Coconino Kaibab	Fort Valley	4,770		Limited	None	1-28-36
Coconino	Long Valley	2,536	15	Limited	Capacity	3-31-36
Crook	Mt. Graham	3,040		Limited	*Continued	3-23-32
Tonto	Sierra Ancha	13,255		None	Continued	4-6-38

NEW MEXICO

Lincoln	Cloudcroft	2,120		Limited	None	11-30-35

NATURAL AREAS

ARIZONA

Coconino	Oak Creek Canyon	940		None	None	10-15-31
Coconino	San Francisco Peaks	880		None	Conservative	10-15-31
Coronado	Butterfly Peak	1,000		None	"	7-25-35
Coronado	Chiminea Canyon	160		None	"	2-26-31
Coronado	Pole Bridge Canyon	320		None	Continued	2-26-31
Coronado	Santa Catalina	4,464		None	None	3-23-27
Coconino	Gus Pearson	154**		None	Continued temporarily	8-17-50

NEW MEXICO

Santa Fe	Monument Canyon	640		None	None	10-1-32

RESEARCH AREA

NEW MEXICO

Santa Fe	Univ. of N.M.	10,000		Regular		5-29-30

*Parker Creek Area Closed
**Within Fort Valley Exp. Forest. Area duplicated.

ENGINEERING

ROADS AND TRAILS - JUNE 30, 1950

During Fiscal Year 1950 — ARIZONA

Type of Road	Construction Miles	Construction Cost	Reconstruction Miles	Reconstruction Cost	Maintenance Miles	Maintenance Cost	Total
Forest Highways	24.4	1,445,043					1,445,043
Forest Dev. Roads	2	35,106	24	314,226	6,450	217,679	567,011
Trails	2	486			1,325	26,540	27,026
TOTAL		1,480,635		314,226		244,219	2,039,080

To June 30, 1950

Forest Highways	768.9	11,202,204					11,202,204
Forest Dev. Roads	3,501	7,648,119	1010	1,954,579		2,992,918	12,595,616
Trails	3,125	425,797		507,293		1,132,562	2,065,652
TOTAL		19,276,120		2,461,872		4,125,480	25,863,472

During Fiscal Year 1950 — NEW MEXICO

Forest Highways	54	881,943					881,943
Forest Dev. Roads	8	32,279	23	11,074	3,306	189,205	232,558
Trails	11	7,258			1,552	22,460	29,718
TOTAL		921,480		11,074		211,665	1,144,219

To June 30, 1950

Forest Highways	396	8,443,843	104	613,073			9,056,916
Forest Dev. Roads	2,527	5,799,604	773	1,642,718		3,247,977	10,690,299
Trails	1,971	129,880				407,607	537,487
TOTAL		14,373,327		2,255,791		3,655,584	20,284,702

During Fiscal Year 1950 — REGION 3

Forest Highways	78.4	2,326,998					2,326,998
Forest Dev. Roads	10	67,385	47	325,300	9,756	406,884	799,569
Trails	13	7,744			2,877	49,000	56,744
TOTAL		2,402,127		325,300		555,884	3,283,311

To June 30, 1950

Forest Highways	1,164.9	19,646,047	104	613,073			20,259,120
Forest Dev. Roads	6,028	13,447,723		3,553,538		6,240,895	23,242,156
Trails	5,096	555,677				967,142	1,522,819
TOTAL		33,649,447		4,166,611		7,208,037	45,024,095

PAYMENTS TO STATES
From
NATIONAL FOREST RECEIPTS - JUNE 30, 1950

ARIZONA

Forest	County	Net Forest Area-Acres	Act 6/20/10 (School Sections)	Act 5/23/08 (25% Fund)
Apache	Apache	441,607		18,101.37
	Greenlee	236,811		9,706.68
	Total	678,418	$ 6,807.79	$27,808.05
Coconino	Coconino	1,404,512		70,744.57
	Yavapai	426,314		21,472.82
	Total	1,830,826	$22,576.08	$92,217.39
Coronado	Cochise	481,749		6,488.69
	Pima	384,904		5,184.29
	Pinal	24,071		324.15
	Santa Cruz	425,106		5,725.72
	Total	1,315,830	$ 4,338.79	$ 17,722.85
Crook	Cochise	22,396		292.04
	Gila	340,420		4,438.46
	Graham	397,026		5,176.62
	Greenlee	512,118		6,677.06
	Maricopa	10,866		141.66
	Pinal	139,314		1,816.40
	Total	1,422,140	$ 4,539.39	$ 18,542.24
Kaibab	Coconino	1,659,631		23,642.07
	Mohave	28,059		399.63
	Yavapai	26,020		370.83
	Total	1,713,710	$ 5,976.52	$ 24,412.53
Prescott	Coconino	43,252		429.08
	Yavapai	1,208,876		11,993.59
	Total	1,252,128	$ 3,041.24	$ 12,422.67
Sitgreaves	Apache	44,040		3,773.17
	Coconino	287,325		24,617.78
	Navajo	474,459		40,651.50
	Total	805,824	$16,902.54	$ 69,042.45
Tonto	Gila	1,335,672		16,190.12
	Maricopa	680,897		8,253.43
	Pinal	59,028		715.57
	Yavapai	334,911		4,059.65
	Total	2,410,508	$ 7,153.16	$ 29,218.77
Total for Arizona		11,429,384	$71,335.51	$291,386.95

DISTRIBUTION BY COUNTIES OF THE 25% FUND (LAST COLUMN)

Apache	21,874.54	Greenlee	16,383.74	Pinal	2,856.12
Cochise	6,780.73	Maricopa	8,395.09	Santa Cruz	5,725.72
Coconino	119,433.50	Mohave	399.63	Yavapai	37,896.89
Gila	20,628.58	Navajo	40,651.50		
Graham	5,176.62	Pima	5,184.29	Total	$291,386.95

PAYMENTS TO STATES
From
NATIONAL FOREST RECEIPTS - JUNE 30, 1950
NEW MEXICO

Forest	County	Net Forest Area-Acres	Act 6/20/10 (School Sections)	Act 5/23/08 (25% Fund)
Apache	Catron	887,778	$ 167.69	$ 38,574.85
Carson	Colfax	6,293		71.99
	Mora	14,207		162.49
	Rio Arriba	789,511		9,031.75
	Taos	321,784		3,681.03
	Total	1,131,795	$ 56.28	$ 12,947.26
Cibola	Bernalillo	80,987		654.61
	Catron	165,709		1,339.40
	McKinley	176,892		1,429.82
	Sandoval	45,263		365.78
	Sierra	20,766		167.80
	Socorro	874,626		7,069.29
	Torrance	159,760		1,291.35
	Valencia	229,376		1,853.98
	Total	1,753,379	$ 61.61	$ 14,172.03
Coronado	Hidalgo	69,477	$ 4.31	$ 991.98
Gila	Catron	1,141,446		15,154.46
	Grant	883,087		11,724.43
	Hidalgo	7,653		101.61
	Sierra	359,536		4,773.22
	Total	2,391,722	$ 138.04	$ 31,753.72
Lincoln	Chavez	40,138		695.95
	Eddy	134,739		2,335.99
	Lincoln	440,725		7,640.97
	Otero	470,844		8,163.19
	Socorro	1,866		32.30
	Torrance	90,598		1,570.75
	Total	1,178,910	$ 88.85	$ 20,439.15
Santa Fe	Mora	77,478		1,125.90
	Rio Arriba	406,090		5,901.47
	Sandoval	275,526		4,004.06
	San Miguel	295,631		4,296.32
	Santa Fe	179,615		2,610.16
	Taos	1,703		24.79
	Total	1,236,043	$ 78.08	$ 17,962.70
Total for New Mexico		8,649,104	$ 594.86	$136,841.69

DISTRIBUTION BY COUNTIES OF THE 25% FUND (LAST COLUMN)

Bernalillo	654.61	Lincoln	7,640.97	Santa Fe	2,610.16
Catron	55,068.71	McKinley	1,429.82	Sierra	4,941.02
Chavez	695.95	Mora	1,288.39	Socorro	7,101.59
Colfax	71.99	Otero	8,163.19	Taos	3,705.82
Eddy	2,335.99	Rio Arriba	14,933.22	Torrance	2,862.10
Grant	11,724.43	San Miguel	4,296.32	Valencia	1,853.98
Hidalgo	1,093.59	Sandoval	4,369.84	Total	$136,841.69

NET RECEIPTS FOR THE FISCAL YEAR 1950

	Timber Sales	Grazing	Land Use	Power	Total
Arizona	$ 815,833.07	$377,428.80	$33,486.35	$10,135.08	$1,236,883.30
New Mexico	330,634.12	204,444.43	12,668.18	214.92	547,961.65
Region 3	$1,146,467.19	$581,873.23	$46,154.53	$10,350.00	$1,784,844.95

Due School Fund: (Enabling Act June 20, 1910)

Arizona $71,335.51

New Mexico 594.86

	Arizona	New Mexico
Total Gross Receipts	$1,236,883.30	$547,961.65
Less School Fund Receipts	71,335.51	594.86
Net Receipts	$1,165,547.79	$547,366.79
Due States: 25% (Net Receipts)	291,386.95	136,841.69*
Due Road and Trail Fund: 10% (Gross Receipts)	123,688.33	54,796.16**

*25% of the net receipts from National Forests are paid over to the counties in which the forests are located for schools and roads.

**10% of the gross National Forest receipts are returned to the forest for use on roads and trails within the forests.

SCHOOLS GIVING COURSES LEADING TO A DEGREE IN FORESTRY
(As compiled by the U. S. Forest Service)

Alabama Polytechnic Institute, Auburn, Alabama
University of California, Berkeley 4, California
Colorado A&M College, Fort Collins, Colorado
Duke University, Durham, North Carolina
University of Georgia, Athens, Georgia
University of Florida, Gainesville, Florida
Harvard University, Petersham, Massachusetts
University of Idaho, Moscow, Idaho
Iowa State College, Ames, Iowa
Louisiana State University, Baton Rouge, Louisiana
University of Main, Orono, Maine
Michigan State College, East Lansing, Michigan
University of Michigan, Ann Arbor, Michigan
Michigan College of Mining & Technology, Houghton, Michigan
University of Minnesota, Saint Paul 8, Minnesota
Montana State University, Missoula, Montana
University of New Hampshire, Durham, New Hampshire
North Carolina State College, Raleigh, North Carolina
Oregon State College, Corvallis, Oregon
Pennsylvania State College, State College, Pennsylvania
Purdue University, Lafayette, Indiana
Syracuse University, Syracuse, New York
Utah State College, Logan, Utah
University of Washington, Seattle, Washington
West Virginia University, Morgantown, West Virginia
University of Missouri, Columbia, Missouri
Oklahoma A&M College, Stillwater, Oklahoma
Yale University, New Haven, Connecticut

INSTITUTIONS WHICH OFFER A FORESTRY CURRICULUM BUT NOT A FORESTRY DEGREE

University of Connecticut, Storrs, Connecticut
Massachusetts State College, Amherst, Massachusetts
Virginia Polytechnic Institute, Blacksburg, Virginia
Washington State College, Pullman, Washington

HISTORY OF FORESTRY DEVELOPMENT IN THE UNITED STATES

1631 First sawmill at Berwick, Maine
1640 First Ordinance governing timber use. (Exeter, N.H.)
1822 DeWitt Clinton, Governor of New York, pleaded for practice of conservation.
1828 Live oak and cedar reservations for Navy made in Louisiana (19,000 acres).
1831 Timber cutting on public lands prohibited.
1849 Report of Patent Office urges conservation.
1867 Wisconsin appointed committee to report on effect of forest destruction.
1870 Census. Forest area canvassed.
1872 Governor Morton of Nebraska established Arbor Day.
1873 Forestry Committee of American Association for the Advancement of Science presented memorials to Congress, asking for the appointment of a commission of forestry.
Timber culture act.
1876 Congress established an "agency" on forestry in the Department of Agriculture. Dr. Franklin B. Hough appointed Commissioner of Forestry.
1877 Congress granted its first appropriation of $6,000 for the purpose of obtaining information preparatory to establishing a Division of Forestry.
1882 American Forestry Association started April 25 at Cincinnati.
1884 The duty of making experiments with timber was added to work of Division of Forestry.
1886 Division of Forestry in Department of Agriculture created.
1891 By Act of Congress, the President was given power to establish forest reservations.
President Harrison established the Yellowstone Park Timber Land Reserve to be under control of the Land Office.
1892 Pecos River Forest Reserve established in New Mexico.
1893 Grand Canyon Forest Reserve established in Arizona.
1896 Secretary of Interior requested the National Academy of Science to investigate and recommend a National Forest policy.
1897 By the Act of June 4, the forest reserves were put under administration and from this Act, with subsequent amendments, the forests are now being administered. The Land Office had charge of administration.
The Division of Forestry gave technical advice. The U. S. Geological Survey was charged with surveying and mapping the forests.
1898 The Division of Forestry employed a total of six clerks and five Scientific employees.
The first field work was done, which consisted of special investigation in connection with lumbering.
1901 The Division of Forestry was raised to the rank of Bureau but the change was in name only.
1905 By the Act of February 1, forestry work was consolidated and the forest reserves were transferred to the Department of Agriculture and the work of the Service as we know it today, started. In July, 1905, the Bureau of Forestry became the Forest Service.
1907 The "forest reserves" were changed to National Forests in name to correct the impression that they were withdrawn from use.

1908 The direct administration of field work was transferred from Washington, D.C., to six district headquarters in the West; in 1914, a seventh district was established for the Appalachian region; in 1921 an eighth district was established in Alaska, and in 1929 a ninth district was set up for the Lake States.

1909 Between 1901 and 1909, President Roosevelt set aside over 148,000,000 acres of National Forests.

1911 By Act of March 1 (Weeks Law), acquisition of forest lands on headwaters of navigable streams east of Mississippi River made possible.

1922 General Forest Exchange Act authorizing exchange of lands in National Forests, cutting of timber in exchange for land, reservation of timber, etc., amended and extended 1923, 1926, 1928, 1929, 1935.

1924 The Reforestation Act (Clarke-McNary) was passed on June 7, greatly extending the scope of government cooperation in forestry.

1928 McNary-Woodroff Act was passed, authorizing appropriations of $2,000,000 for 1929 and $3,000,000 each for 1930 and 1931 for purchase of forest lands.
Forest Research Act (McNary-McSweeney) was passed, providing for a national forest research program on the part of seven governmental bureaus.

1930 Forest Service Districts became "Regions".
Secretary of Agriculture authorized to enlarge tree planting operations on National Forests.
Secretary of Agriculture authorized in cases of emergency to incur expense in search of persons lost in National Forests and in transporting persons seriously ill, injured or who may die within National Forests to nearest place where may be transferred to interested relatives or local authorities.

1935 Secretary of Agriculture authorized to cooperate with States in acquisition and administration of State Forests (Fulmer Act).

1936 Secretary of Agriculture authorized to maintain forest experiment stations throughout the United States.

1937 Secretary of Agriculture authorized to cooperate in development of farm forestry in States and Territories. (Norris-Doxey Act).

1938 Senate Concurrent Resolution No. 31 adopted June 13, 1938, created a Joint Congressional Committee to study the forest situation in the United States.

1941 Joint Congressional Committee on Forestry issued a report on "Forest Lands of the United States", citing deplorable conditions in the forest areas of many sections of U. S. and recommending "The establishment of a real forest economy in this country which, as important segment of the broad agricultural economy, will put to constructive use one-third of our total land areas." Recommendations included various cooperative aids to private forest land owners, expansion of public ownership, and a federal-state system of regulation governing forestry practices.

1944 Secretary of Agriculture and Secretary of the Interior authorized by Congress to establish cooperative sustained-yield units, under cooperative agreements with private owners of forest land within the units.

1944 Secretary of Agriculture authorized and directed by Congress to cooperate in making a national survey of forest resources. Clarke-McNary Act (see "1924") amended, increasing funds to not exceeding $1,000,000 annually.

1945-1947 The Forest Service completed a post-war reappraisal of the forest situation in the United States. Several reappraisal reports were published. The reappraisal showed that the volume of sawtimber in the country's forests had declined some 43 percent in 36 years, that sawtimber was being drained from the forests one and a half times as fast as it was being replaced by growth, and that there had been a marked deterioration in quality as well as quantity of timber. It showed that cutting practice on 64 percent of all private forest land was poor to destructive; 28 percent was fair; only 8 percent was good or better. The reports said there is ample forest land in the United States to grow all the timber we are likely to need, but that if prospective future requirements are to be met, timber growing stock should be built up to double the present volume.

1948 First sustained-yield unit in Region established under the Sustained Yield Law (see "1944") near Vallecitos, New Mexico, on Carson National Forest.

Secretary of Agriculture set up an advisory committee to consider questions arising in regard to National Forest administration.

1949 Columbia National Forest in Washington was re-named Gifford Pinchot National Forest in memory of the first Chief of the Forest Service.

A Bill, sponsored by Senator Anderson of New Mexico was enacted by Congress to provide a large scale, continuing program of reforestation and range revegetation.

A large Sustained Yield Unit was set up on the Coconino National Forest.

1950 Congress enacted a law, known as the Granger-Thye Act, to facilitate and simplify the work of the Forest Service. It provides procedural changes which had long been needed. It also provides for use of part of the money collected as grazing fees in improving the forest ranges.

The Region, particularly New Mexico, experienced one of the most severe fire seasons in its history and had the largest fires of record.

ORIGIN OF NATIONAL FORESTS IN THE SOUTHWEST

ARIZONA

Dates of Proclamations and Executive Orders Establishing Them	Original Names and Present Names
Apache National Forest	
August 17, 1898	Black Mesa Forest Reserve
July 1, 1908	Part of the Black Mesa Forest Reserve became the Apache N.F. *
(The above covers only the portion of the Apache N.F. in Arizona.)	
Coconino National Forest	
August 17, 1898	San Francisco Mountains Forest Reserve
July 2, 1908	All of the San Francisco Mountains Forest Reserve and parts of the Black Mesa, Tonto and Grand Canyon Forest Reserves were consolidated under the name of Coconino N.F.
Coronado National Forest	
November 5, 1906	Baboquivari Forest Reserve
November 6, 1906	Huachuca Forest Reserve
November 7, 1906	Tumacacori Forest Reserve
July 2, 1908	Baboquivari, Huachuca and Tumacacori Forest Reserves consolidated under name of Garces N.F.
April 11, 1902	Santa Rita Forest Reserve
July 2, 1902	Santa Catalina Forest Reserve
May 25, 1907	Dragoon N.F.
July 2, 1908	Santa Rita, Santa Catalina and Dragoon N.Fs. consolidated under name of Coronado N.F.
April 17, 1911	Garces and Coronado N.Fs. consolidated under name of Coronado N.F.
July 30, 1902	Chiricahua Forest Reserve
November 5, 1906	Peloncillo Forest Reserve

*The term "National Forest" is abbreviated in this section.

July 2, 1908	Chiricahua and Peloncillo Forest Reserves consolidated under name of Chiricahua N.F. (portion of the Peloncillo in New Mexico)
July 6, 1917	Chiricahua and Coronado N.Fs. consolidated under name of Coronado N.F.

(The above covers the entire Forest in Arizona and New Mexico)

Crook National Forest

July 22, 1902	Mt. Graham Forest Reserve
March 20, 1905	Pinal Mountains Forest Reserve
October 3, 1905	Tonto Forest Reserve
January 13, 1908	Pinal Mountains Forest Reserve became part of Tonto N.F.
July 1, 1908	Parts of the Mt. Graham and Tonto N.Fs. including Pinal Mountains area, consolidated under name of Crook N.F.
January 23, 1925	518,431 acres transferred from Apache N.F. to Crook N.F.

Kaibab National Forest

February 20, 1893	Grand Canyon Forest Reserve
July 2, 1908	All of the San Francisco Mountains and parts of the Black Mesa, Tonto and Grand Canyon Forest Reserves consolidated under name of Coconino N.F.
June 28, 1910	Part of Coconino N.F. together with certain other land not heretofore reserved became Tusayan N.F.
May 22, 1908	Dixie N.F. (Arizona)
July 2, 1908	Kaibab N.F.
March 18, 1924	Dixie consolidated with Kaibab N.F.
August 4, 1934	Tusayan and Kaibab N.Fs. consolidated

Prescott National Forest

May 10, 1898	Prescott Forest Reserve
December 30, 1907	Verde Forest Reserve

July 2, 1908	Prescott and Verde N.Fs. consolidated under name of Prescott N.F.
October 22, 1934	249,201 acres transferred from Tusayan to Prescott N.F.

Sitgreaves National Forest

July 1, 1908	Parts of the Black Mesa and Tonto N.Fs. consolidated under name of Sitgreaves N.F.

Tonto National Forest

October 3, 1905	Tonto Forest Reserve
October 22, 1934	Bloody Basin transferred from Prescott to Tonto N.F. (151,285 acres)

NEW MEXICO

Apache National Forest

January 23, 1925	A portion of Datil N.F. was transferred to Apache N.F. This portion was originally part of the Magdalena and Gila River Forest Reserves.

Carson National Forest

November 7, 1906	Taos Forest Reserve
July 1, 1908	Carson N.F. created by consolidation of Taos N.F. and part of Jemez N.F.
June 16, 1923	63,708 acres in Taos County transferred from Santa Fe N.F. to Carson N.F.

Cibola National Forest

October 5, 1906	Mt. Taylor Forest Reserve
November 5, 1906	San Mateo Forest Reserve. Magdalena Forest Reserve.
November 6, 1906	Manzano Forest Reserve
April 16, 1908	Mt. Taylor N.F. consolidated with Manzano N.F.
June 18, 1908	Creating the Datil N.F.
July 2, 1908	San Mateo N.F. added to Magdalena N.F.
February 23, 1909	Magdalena and Datil N.Fs. consolidated.
March 2, 1909	Zuni N.F.
September 10, 1914	Zuni N.F. consolidated with Manzano N.F.
December 3, 1931	Name of the Manzano changed to Cibola N.F. and a portion of the Datil transferred to the Cibola.

Gila National Forest

March 2, 1899	Gila River Forest Reserve
February 6, 1907	Big Burros Forest Reserve
June 18, 1908	Consolidating the Big Burros with Gila N.F.
December 24, 1931	A portion of the Datil was transferred to the Gila N.F.

Lincoln National Forest

July 26, 1902	Lincoln Forest Reserve
November 5, 1906	Gallinas Forest Reserve
April 19, 1907	Guadalupe N.F.
April 24, 1907	Sacramento N.F.
July 2, 1908	Guadalupe and Sacramento N.Fs. consolidated as Alamo N.F. The Gallinas and Lincoln N.Fs. consolidated as Lincoln N.F.
June 6, 1917 (effective July 1)	Alamo N.F. transferred to the Lincoln N.F.

Santa Fe National Forest

January 11, 1892	Pecos River Forest Reserve
October 12, 1905	Jemez Forest Reserve
July 1, 1908	Pecos River N.F. changed to Pecos N.F.
July 1, 1915	Jemez and Pecos N.Fs. consolidated as the Santa Fe N.F.

October 3, 1905	Portales Forest Reserve
March, 1907	Portales Forest Reserve restored to the public domain.

NOTE: The foregoing covers only changes of name and major transfers. There have been many additions, eliminations and changes in boundaries not listed.